

NOTICE OF DRAFTSPERSON'S  
PATENT DRAWING REVIEWThe drawings filed (insert date) 11-10-00 are:A ☐ approved by the Draftsperson under 37 CFR 1.84(c) or 1.152.B ☒ disapproved by the Draftsperson under 37 CFR 1.84(c) or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

<p>1. DRAWINGS: 37 CFR 1.84(a). Acceptable drawings: Drawings black ink on color.</p> <p><input type="checkbox"/> Color drawings are not acceptable when picture is required. Figs(s) _____</p> <p><input type="checkbox"/> Lead and non-lead ink not permitted. Figs(s) _____</p> <p>2. PHOTOGRAPHS: 37 CFR 1.84(b).</p> <p><input type="checkbox"/> Lead-line set is required. Figs(s) _____</p> <p><input type="checkbox"/> Photographs may not be mounted. 37 CFR 1.84(c).</p> <p><input type="checkbox"/> Lead quality (half-toned). Figs(s) _____</p> <p>3. TYPE OF PAPER: 37 CFR 1.84(c).</p> <p><input type="checkbox"/> Paper must be of strong, white, and durable.</p> <p><input checked="" type="checkbox"/> Paper is of strong, white, and durable. Figs(s) _____</p> <p><input type="checkbox"/> Paper is of strong, white, and durable. Figs(s) _____</p> <p><input type="checkbox"/> Paper is of strong, white, and durable. Figs(s) _____</p> <p>4. SIZE OF PAPER: 37 CFR 1.84(d). Acceptable sizes:</p> <p><input type="checkbox"/> 21.0 cm x 29.7 cm (DIN size A4).</p> <p><input type="checkbox"/> 21.0 cm x 27.9 cm (8 1/2 x 11 inches).</p> <p><input type="checkbox"/> Vertical drawing sheets not the same size.</p> <p><input type="checkbox"/> Drawing sheets not the same size. Figs(s) _____</p> <p>5. MARGINS: 37 CFR 1.84(g). Acceptable margins:</p> <p>Top 2.5 cm (1 in) 2.5 cm; Right 1.5 cm (1/2 in) 1.5 cm; Size: A4 Size.</p> <p>Top 2.5 cm (1 in) 2.5 cm; Right 1.5 cm (1/2 in) 1.5 cm; Size: 8 1/2 x 11.</p> <p>Margins not acceptable. Figs(s) <u>1A, 1B</u></p> <p><input checked="" type="checkbox"/> Top (T) _____ Left (L) _____</p> <p><input checked="" type="checkbox"/> Right (R) _____ Bottom (B) _____</p> <p>6. VIEWS: 37 CFR 1.84(m).</p> <p>REMARK: Specification may require revision to correct and to show changes.</p> <p>Partial views: 37 CFR 1.84(h)(2).</p> <p><input type="checkbox"/> Figures needed to show figures. Figs(s) _____</p> <p><input type="checkbox"/> Figures needed to show figures. Figs(s) _____</p> <p><input type="checkbox"/> Views not labeled separately. Figs(s) _____</p> <p><input type="checkbox"/> Enlarged view is attached separately. Figs(s) _____</p> <p>7. SECTIONAL VIEWS: 37 CFR 1.84(h)(3).</p> <p><input type="checkbox"/> Hatching not indicated for sectioned portions of an object. Figs(s) _____</p> <p><input type="checkbox"/> Section designation should be noted with Arabic or Roman numbers. Figs(s) _____</p>	<p>8. ARRANGEMENT OF VIEWS: 37 CFR 1.84(i).</p> <p><input type="checkbox"/> Words do not appear on a horizontal, left-to-right fashion when pages are either upright or turned so that the top becomes the right side, except for graphs. Figs(s) _____</p> <p>9. SCALE: 37 CFR 1.84(k).</p> <p><input type="checkbox"/> Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Figs(s) _____</p> <p>10. CHARACTER OF LINES, NUMBERS, &amp; LETTERS: 37 CFR 1.84(j).</p> <p><input checked="" type="checkbox"/> Lines, numbers &amp; letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Figs(s) <u>1A-2</u></p> <p>11. SHADING: 37 CFR 1.84(m).</p> <p><input type="checkbox"/> Solid black areas pale. Figs(s) _____</p> <p><input type="checkbox"/> Solid black shading not permitted. Figs(s) _____</p> <p><input type="checkbox"/> Shade lines, pale, rough and blurred. Figs(s) _____</p> <p>12. NUMBERS, LETTERS, &amp; REFERENCE CHARACTERS: 37 CFR 1.84(l).</p> <p><input checked="" type="checkbox"/> Numbers and reference characters not plain and legible. Figs(s) <u>1A-2</u></p> <p><input checked="" type="checkbox"/> Figure legends are poor. Figs(s) <u>1A-2</u></p> <p><input type="checkbox"/> Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1). Figs(s) _____</p> <p><input type="checkbox"/> English alphabet not used. 37 CFR 1.84(p)(2). Figs(s) _____</p> <p><input type="checkbox"/> Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3). Figs(s) _____</p> <p>13. LEAD LINES: 37 CFR 1.84(q).</p> <p><input type="checkbox"/> Lead lines cross each other. Figs(s) _____</p> <p><input type="checkbox"/> Lead lines missing. Figs(s) _____</p> <p>14. NUMBERING OF SHEETS OF DRAWINGS: 37 CFR 1.84(i).</p> <p><input type="checkbox"/> Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) _____</p> <p>15. NUMBERING OF VIEWS: 37 CFR 1.84(u).</p> <p><input type="checkbox"/> Views not numbered consecutively, and in Arabic numerals beginning with number 1. Figs(s) _____</p> <p>16. CORRECTIONS: 37 CFR 1.84(w).</p> <p><input type="checkbox"/> Corrections not made from prior PTO-945 dated _____</p> <p>17. DESIGN DRAWINGS: 37 CFR 1.152.</p> <p><input type="checkbox"/> Surface shading shown not appropriate. Figs(s) _____</p> <p><input type="checkbox"/> Solid black shading not used for color contrast. Figs(s) _____</p>
COMMENTS	

REVIEWER

J. C. HASE

DATE

2-13-02

TELEPHONE NO.

703 305 8430

ATTACHMENT TO PAPER NO.

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## REMINDER

Drawing changes may also require changes in the specification, e.g., if Fig. 1 is changed to Fig. 1A, Fig. 1B, Fig. 1C, etc., the specification, at the Brief Description of the Drawing, must likewise be changed. Please make such changes by 37 CFR 1.312 Amendment at the time of submitting drawings.

## INFORMATION ON HOW TO EFFECT DRAWING CHANGES

### 1. Correction of Drawings - 37 CFR 1.85

File new drawings with the changes incorporated therein. Identifying indicia, if provided, ~~should~~ include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it ~~must~~ be placed on the front of each sheet and centered within the top margin. The drawing should be filed as a separate paper with a transmittal letter addressed to the Drawing Review Branch.

### 2. Timing for Corrections

Applicant is required to submit **acceptable** corrected drawings within the three-month shortened statutory period set in the Notice of Allowability (PTOL-37).

Failure to take corrective action within set period will result in **ABANDONMENT** of the Application.

### 3. Corrections other than Defects Noted by the Drawing Review Branch on the Form PTO-948

All changes to the drawings, other than defects noted by the Drawing Review Branch, **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted other than correction of defects, unless the examiner has approved the proposed changes.

**Attachment for PTO-948 (Rev. 03/01, or earlier)**  
**6/18/01**

**The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.**

**INFORMATION ON HOW TO EFFECT DRAWING CHANGES**

**1. Correction of Informalities -- 37 CFR 1.85**

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings **MUST** be filed within the **THREE MONTH** shortened statutory period set for reply in the Notice of Allowability. Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

**2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.**

All changes to the drawings, other than informalities noted by the Draftsperson, **MUST** be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.

**Timing of Corrections**

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a).

Failure to take corrective action within the set period will result in **ABANDONMENT** of the application.